## **EAST Search History**

## **EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		(control\$3 proces\$4)	US-PGPUB; USPAT	OR	ON	2010/12/27 12:23
		(control\$3 process\$3)	US-PGPUB; USPAT	OR	ON	2010/12/27 12:20
L1	1	"10599649"	US-PGPUB; USPAT	OR	OFF	2011/01/13 11:24
L2	1	"10599649"	US-PGPUB; USPAT	OR	ON	2011/01/13 11:24
S1	0	"2004053211"	US-PGPUB; USPAT	OR	ON	2010/12/23 10:55
S2	4	("20020127144"   "20040053211"   "20040209351"   "4055799").PN.	US-PGPUB; USPAT	OR	ON	2010/12/23 10:56
S3	2	"20040053211"	US-PGPUB; USPAT	OR	ON	2010/12/27 11:10
S4	7506	trap with signal	US-PGPUB; USPAT	OR	ON	2010/12/27 11:10
S5	0	S3 and S4	US-PGPUB; USPAT	OR	ON	2010/12/27 11:10
S6	14435	trap same signal	US-PGPUB; USPAT	OR	ON	2010/12/27 11:10
S7	0	S3 and S6	US-PGPUB; USPAT	OR	ON	2010/12/27 11:10
S8	4420	trap with frequency	US-PGPUB; USPAT	OR	ON	2010/12/27 11:19
S9	2	S3 and S8	US-PGPUB; USPAT	OR	ON	2010/12/27 11:19
S10	35096	(measur\$3 determin\$3 detect\$3 identify\$3 investigat\$3) same (cell particle) same (liquid solution) and (electrode sensor sens\$3) and (trap\$4 cag\$3)	US-PGPUB; USPAT	OR	ON	2010/12/27 12:15
S11	1237	324/71.1.ccls.	US-PGPUB; USPAT	OR	ON	2010/12/27 12:15
S12	31	S10 and S11	US-PGPUB; USPAT	OR	ON	2010/12/27 12:16

S13	16352	measur\$3 adj2 electrode	US-PGPUB; USPAT	OR	ON	2010/12/27 12:16
S14	520	S10 and S13	US-PGPUB; USPAT	OR	ON	2010/12/27 12:17
S15	1016866	current and voltage	US-PGPUB; USPAT	OR	ON	2010/12/27 12:17
S16	354	S14 and S15	US-PGPUB; USPAT	OR	ON	2010/12/27 12:17
S17	2035	impedance adj2 spectroscopy	US-PGPUB; USPAT	OR	ON	2010/12/27 12:18
S18	684	impedance adj2 tomography	US-PGPUB; USPAT	OR	ON	2010/12/27 12:18
S19	53	S17 and S18	US-PGPUB; USPAT	OR	ON	2010/12/27 12:18
S20	2	S16 and S19	US-PGPUB; USPAT	OR	ON	2010/12/27 12:18
S21	1	coster-hans.in.	US-PGPUB; USPAT	OR	ON	2010/12/27 12:31
S22	0	chilcott-terry.in.	US-PGPUB; USPAT	OR	ON	2010/12/27 12:31
S23	5	lupke-stefan.in.	US-PGPUB; USPAT	OR	ON	2010/12/27 12:31
S24	53	muller-torsten.in.	US-PGPUB; USPAT	OR	ON	2010/12/27 12:32
S25	35096	(measur\$3 determin\$3 detect\$3 identify\$3 investigat\$3) same (cell particle) same (liquid solution) and (electrode sensor sens\$3) and (trap\$4 cag\$3)	US-PGPUB; USPAT	OR	ON	2010/12/27 12:32
S26	22	S25 and S24	US-PGPUB; USPAT	OR	ON	2010/12/27 12:32
S27	35	schnelle-thomas.in.	US-PGPUB; USPAT	OR	ON	2010/12/27 12:35
S28	7753	435/4.ccls.	US-PGPUB; USPAT	OR	ON	2010/12/27 12:36
S29	612	S25 and S28	US-PGPUB; USPAT	OR	ON	2010/12/27 12:36
S30	1016866	current and voltage	US-PGPUB; USPAT	OR	ON	2010/12/27 12:36
S31	188	S30 and S29	US-PGPUB; USPAT	OR	ON	2010/12/27 12:36
S32	2035	impedance adj2 spectroscopy	US-PGPUB; USPAT	OR	ON	2010/12/27 12:37
S33	1	S32 and S31	US-PGPUB; USPAT	OR	ON	2010/12/27 12:37

S34	1	"10599649"	US-PGPUB; USPAT	OR	ON	2010/12/27 15:54
<b>S</b> 35	2	"20040053211"	US-PGPUB; USPAT	OR	ON	2011/01/11 13:14
S36	393	324/457.ccls.	US-PGPUB; USPAT	OR	ON	2011/01/11 13:46
S37	174	324/452.ccls.	US-PGPUB; USPAT	OR	ON	2011/01/11 13:46
S38	111	324/453.ccls.	US-PGPUB; USPAT	OR	ON	2011/01/11 13:46
S39	808	600/345.ccls.	US-PGPUB; USPAT	OR	ON	2011/01/11 13:47
S40	621	73/53.01.ccls.	US-PGPUB; USPAT	OR	ON	2011/01/11 13:47
S41	575	73/861.08	US-PGPUB; USPAT	OR	ON	2011/01/11 13:47
S42	33884	(detect\$3 measur\$3 monitor\$3 investigat\$3) adj2 electrode	US-PGPUB; USPAT	OR	ON	2011/01/11 13:47
S43	9	((trap\$4 hold\$3 secur \$3) adj2 element) and (cage adj2 (electrode sensor))	US-PGPUB; USPAT	OR	ON	2011/01/11 13:49
S44	286313	(detect\$3 measur\$3 monitor\$3 investigat\$3) adj2 (sensor electrode)	US-PGPUB; USPAT	OR	ON	2011/01/11 13:49
S45	5	S43 and S44	US-PGPUB; USPAT	OR	ON	2011/01/11 13:49
S46	1933	(cage trap\$4) adj2 electrode	US-PGPUB; USPAT	OR	ON	2011/01/11 13:52
S47	306	S44 and S46	US-PGPUB; USPAT	OR	ON	2011/01/11 13:53
S48	0	S36 and S47	US-PGPUB; USPAT	OR	ON	2011/01/11 13:53
S49	0	S37 and S47	US-PGPUB; USPAT	OR	ON	2011/01/11 13:53
S50	0	S38 and S47	US-PGPUB; USPAT	OR	ON	2011/01/11 13:53
S51	0	S39 and S47	US-PGPUB; USPAT	OR	ON	2011/01/11 13:53
S52	0	S40 and S47	US-PGPUB; USPAT	OR	ON	2011/01/11 13:53
S53	0	S41 and S47	US-PGPUB; USPAT	OR	ON	2011/01/11 13:53
S54	465755	(measur\$3 detect\$3 investigat\$3) with (particle cell)	US-PGPUB; USPAT	OR	ON	2011/01/11 13:55

S55	158	S40 and S54	US-PGPUB; USPAT	OR	ON	2011/01/11 13:55
S56	4	S55 and (measur\$3 adj2 electrode)	US-PGPUB; USPAT	OR	ON	2011/01/11 13:55
S57	2	S56 and cage	US-PGPUB; USPAT	OR	ON	2011/01/11 13:56
S58	1	"5589047".pn.	US-PGPUB; USPAT	OR	ON	2011/01/11 13:59
S59	10692	(measuring detecting investigating) adj2 electrode	US-PGPUB; USPAT	OR	ON	2011/01/11 14:04
S60	668	trapping adj2 element	US-PGPUB; USPAT	OR	ON	2011/01/11 14:05
S61	9	S59 and S60	US-PGPUB; USPAT	OR	ON	2011/01/11 14:05
S62	245	cage adj2 electrode	US-PGPUB; USPAT	OR	ON	2011/01/11 14:05
S63	1	S61 and S62	US-PGPUB; USPAT	OR	ON	2011/01/11 14:05
S64	35	schnelle-thomas.in.	US-PGPUB; USPAT	OR	ON	2011/01/11 14:07
S65	13	S64 and (cage adj2 electrode)	US-PGPUB; USPAT	OR	ON	2011/01/11 14:08
S66	49	(US-20060275907-\$ or US-20070020767-\$ or US-20070040480-\$ or US-20070163883-\$ or US-20080246489-\$ or US-20090008254-\$ or US-20100155246-\$). did. or (US-5263374-\$ or US-5568053-\$ or US-4393710-\$ or US-4757824-\$ or US-475796-\$ or US-4922182-\$ or US-5334351-\$ or US-5450005-\$ or US-545005-\$ or US-5710376-\$ or US-5814823-\$ or US-5938126-\$ or US-5938126-\$ or US-6130056-\$ or US-6130056-	US-PGPUB; USPAT	OR	OFF	2011/01/11

		6527927-\$ or US- 7105080-\$ or US- 7605520-\$ or US- 7803628-\$ or US- 4303492-\$ or US- 4496202-\$).did. or (US- 4570102-\$ or US- 4781640-\$ or US- 4907498-\$ or US- 4967081-\$ or US- 5239985-\$ or US- 5239985-\$ or US- 5331157-\$ or US- 5331157-\$ or US- 6348328-\$ or US- 6034883-\$ or US- 6118207-\$ or US- 6610188-\$ or US- 4367948-\$ or US- 5581186-\$ or US- 4261660-\$).did.				
S67	9	S66 and (cage adj2 electrode)	US-PGPUB; USPAT	OR	OFF	2011/01/11 14:44
S68	187	cage near electrode	US-PGPUB; USPAT	OR	ON	2011/01/11 14:46
S69	11	S64 and S68	US-PGPUB; USPAT	OR	ON	2011/01/11 14:46
S70	355	cage near2 electrode	US-PGPUB; USPAT	OR	ON	2011/01/11 14:46
S71	19	S64 and S70	US-PGPUB; USPAT	OR	ON	2011/01/11 14:46
S72	6	(measur\$3 adj2 electrode) and (cage adj2 electrode)	US-PGPUB; USPAT	OR	ON	2011/01/11 14:49
S73	11	("4164460"   "4326934"   "4390403"   "5084157"   "6056861"   "6149789").PN. OR ("6610188").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/11 15:12
S74	24186	(determin\$3 monitor\$3 measur\$3 investigat\$3) with (particle cell) with liquid	US-PGPUB; USPAT	OR	ON	2011/01/11 17:29
S75	10672	(measuring detecting) adj2 electrode	US-PGPUB; USPAT	OR	ON	2011/01/11 17:30
S76	327	S74 and S75	US-PGPUB; USPAT	OR	ON	2011/01/11 17:30
S77	1248	324/71.1.ccls.	US-PGPUB; USPAT	OR	ON	2011/01/11 17:31

S78	13	S76 and S77	US-PGPUB; USPAT	OR	ON	2011/01/11 17:31
S79	1	"3944917".pn.	US-PGPUB; USPAT	OR	ON	2011/01/11 18:11
S80	36	("2656508"   "2871446"   "3259842"   "3358223"   "3689833"   "3706030"   "3745455").PN. OR ("3944917").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/11 18:11
S81	1	"6492175".pn.	US-PGPUB; USPAT	OR	ON	2011/01/11 19:22
S82	73187	impedance with frequency	US-PGPUB; USPAT	OR	ON	2011/01/12 11:05
S83	1	"3944917".pn.	US-PGPUB; USPAT	OR	ON	2011/01/12 11:05
S84	1	S83 and S82	US-PGPUB; USPAT	OR	ON	2011/01/12 11:05
S85	1	"3944917".pn.	US-PGPUB; USPAT	OR	ON	2011/01/12 13:33
S86	94	(measuring adj2 electrode) and (impedance adj2 spectroscopy)	US-PGPUB; USPAT	OR	ON	2011/01/12 14:20
S87	1091699	particle	US-PGPUB; USPAT	OR	ON	2011/01/12 14:20
S88	37	S86 and S87	US-PGPUB; USPAT	OR	ON	2011/01/12 14:20
S89	5	S88 and tomography	US-PGPUB; USPAT	OR	ON	2011/01/12 14:20
S90	2	"20040053211"	US-PGPUB; USPAT	OR	ON	2011/01/12 14:22
S91	2991	(measuring adj2 device) with particle	US-PGPUB; USPAT	OR	ON	2011/01/12 14:23
S92	162044	spectroscopy	US-PGPUB; USPAT	OR	ON	2011/01/12 14:23
S93	159	S91 and S92	US-PGPUB; USPAT	OR	ON	2011/01/12 14:23
S94	11	S93 and tomography	US-PGPUB; USPAT	OR	ON	2011/01/12 14:23
S95	54	(impedance adj2 spectroscopy) and (impedance adj2 tomography)	US-PGPUB; USPAT	OR	ON	2011/01/12 14:25

<b>S</b> 96	24	(impedance adj2 spectroscopy) same (electrode) same (particle cell) same (substance liquid)	US-PGPUB; USPAT	OR	ON	2011/01/12 14:34
S97	2254	(impedance adj2 spectro \$\$5)	US-PGPUB; USPAT	OR	ON	2011/01/12 14:39
S98	35357	(measur\$3 determin\$3 detect\$3 identify\$3 investigat\$3) same (cell particle) same (liquid solution) and (electrode sensor sens\$3) and (trap\$4 cag\$3)	US-PGPUB; USPAT	MOR	ON	2011/01/12 14:39
S99	115	S98 and S97	US-PGPUB; USPAT	OR	ON	2011/01/12 14:39
S100	121681		US-PGPUB; USPAT	OR	ON	2011/01/12 14:41
S101	557	\$97 and \$100	US-PGPUB; USPAT	OR	ON	2011/01/12 14:41
S102	1248	324/71.1.ccls.	US-PGPUB; USPAT	OR	ON	2011/01/12 14:41
S103	3	S101 and S102	US-PGPUB; USPAT	OR	ON	2011/01/12 14:41
S104	1	"6703819".pn.	US-PGPUB; USPAT	OR	ON	2011/01/12 15:33
S105	44		US-PGPUB; USPAT; USOCR	mOR	OFF	2011/01/12

"6466021").PN. OR			
("6703819").URPN.			

## **EAST Search History (Interference)**

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1/13/2011 12:03:39 PM

C:\ Documents and Settings\ fhoque\ My Documents\ EAST\ Workspaces\ 10599649-measuring device for impedance sprectroscopy and associated measuring method.wsp